

RECEIVED

MAY 06 2000

TECH CENTER 1600/2900

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/499,662

OIPE

DATE: 03/02/2000
TIME: 11:52:58

Input Set: I499662.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

DFTY

ENTERED

1 <110> APPLICANT: Serizawa, Nobufusa
2 Haruyama, Hideyuki
3 Nakahara, Kaori
4 Tamaki, Ikuko
5 Takahashi, Tohru
6 <120> TITLE OF INVENTION: Anti-Fas Antibodies
7 <130> FILE REFERENCE: 980126CIP/HG
8 <140> CURRENT APPLICATION NUMBER: US/09/499,662
9 <141> CURRENT FILING DATE: 2000-02-09
10 <150> EARLIER APPLICATION NUMBER: US 09/053,583
11 <151> EARLIER FILING DATE: 1998-04-01
12 <160> NUMBER OF SEQ ID NOS: 165
13 <210> SEQ ID NO 1
14 <211> LENGTH: 10
15 <212> TYPE: PRT
16 <213> ORGANISM: Homo sapiens
17 <400> SEQUENCE: 1
18 Arg Thr Gln Asn Thr Lys Cys Arg Cys Lys
19 1 5 10
20 <210> SEQ ID NO 2
21 <211> LENGTH: 5
22 <212> TYPE: PRT
23 <213> ORGANISM: Mus musculus
24 <400> SEQUENCE: 2
25 Ser Tyr Trp Met Gln
26 1 5
27 <210> SEQ ID NO 3
28 <211> LENGTH: 17
29 <212> TYPE: PRT
30 <213> ORGANISM: Mus musculus
31 <400> SEQUENCE: 3
32 Glu Ile Asp Pro Ser Asp Ser Tyr Thr Asn Tyr Asn Gln Lys Phe Lys
33 1 5 10 15
34 Gly
35 <210> SEQ ID NO 4
36 <211> LENGTH: 12
37 <212> TYPE: PRT
38 <213> ORGANISM: Mus musculus
39 <400> SEQUENCE: 4
40 Asn Arg Asp Tyr Ser Asn Asn Trp Tyr Phe Asp Val
41 1 5 10
42 <210> SEQ ID NO 5
43 <211> LENGTH: 15
44 <212> TYPE: PRT

RECEIVED
MAY -5 2000
TC 3700 MAIL ROOM

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/499,662DATE: 03/02/2000
TIME: 11:52:58

Input Set: I499662.RAW

45 <213> ORGANISM: Mus musculus
46 <400> SEQUENCE: 5
47 Lys Ala Ser Gln Ser Val Asp Tyr Asp Gly Asp Ser Tyr Met Asn
48 1 5 10 15
49 <210> SEQ ID NO 6
50 <211> LENGTH: 7
51 <212> TYPE: PRT
52 <213> ORGANISM: Mus musculus
53 <400> SEQUENCE: 6
54 Ala Ala Ser Asn Leu Glu Ser
55 1 5
56 <210> SEQ ID NO 7
57 <211> LENGTH: 9
58 <212> TYPE: PRT
59 <213> ORGANISM: Mus musculus
60 <400> SEQUENCE: 7
61 Gln Gln Ser Asn Glu Asp Pro Arg Thr
62 1 5
63 <210> SEQ ID NO 8
64 <211> LENGTH: 1392
65 <212> TYPE: DNA
66 <213> ORGANISM: Mus musculus
67 <220> FEATURE:
68 <221> NAME/KEY: CDS
69 <222> LOCATION: (1)..(1392)
70 <220> FEATURE:
71 <221> NAME/KEY: mat peptide
72 <222> LOCATION: (58)..(1392)
73 <220> FEATURE:
74 <221> NAME/KEY: sig peptide
75 <222> LOCATION: (1)..(57)
76 <400> SEQUENCE: 8
77 atg gga tgg agc tgt atc atc ctc ttc ttg gta gca aca gct aca ggt 48
78 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
79 -15 -10 -5
80 gtc cat tct cag gtc caa ctg cag cag cct ggg gct gag ctt gtg aag 96
81 Val His Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys
82 -1 1 5 10
83 cct ggg gct tca gtg aag ctg tcc tgc aag gct tct ggc tac acc ttc 144
84 Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
85 15 20 25
86 acc agc tac tgg atg cag tgg gta aaa cag agg cct gga cag ggc ctt 192
87 Thr Ser Tyr Trp Met Gln Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
88 30 35 40 45
89 gag tgg atc gga gag att gat cct tct gat agc tat act aac tac aat 240
90 Glu Trp Ile Gly Glu Ile Asp Pro Ser Asp Ser Tyr Thr Asn Tyr Asn
91 50 55 60
92 caa aag ttc aag ggc aag gcc aca ttg act gta gac aca tcc tcc agc 288
93 Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser
94 65 70 75

RECEIVED

OIPE

MAY 08 2000

PAGE : 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/499,662

TECH CENTER DATE: 05/02/2000
TIME: 11:52:58

Input Set: I499662.RAW

95	aca gcc tac atg cag ctc agc agc ctg aca tct gag gac tct gcg gtc	336
96	Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val	
97	80 85 90	
98	tat tac tgt gca aga aat agg gac tat agt aac aac tgg tac ttc gat	384
99	Tyr Tyr Cys Ala Arg Asn Arg Asp Tyr Ser Asn Asn Trp Tyr Phe Asp	
100	95 100 105	
101	gtc tgg ggc aca ggg acc acg gtc acc gtc tcc tca gcc aaa acg aca	432
102	Val Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr	
103	110 115 120 125	
104	ccc cca tct gtc tat cca ctg gcc cct gga tct gct gcc caa act aac	480
105	Pro Pro Ser Val Tyr Pro Leu Ala Pro Gly Ser Ala Ala Gln Thr Asn	
106	130 135 140	
107	tcc atg gtg acc ctg gga tgc ctg gtc aag ggc tat ttc cct gag cca	528
108	Ser Met Val Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro	
109	145 150 155	
110	gtg aca gtg acc tgg aac tct gga tcc ctg tcc agc ggt gtg cac acc	576
111	Val Thr Val Thr Trp Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr	
112	160 165 170	
113	ttc cca gct gtc ctg cag tct gac ctc tac act ctg agc agc tca gtg	624
114	Phe Pro Ala Val Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val	
115	175 180 185	
116	act gtc ccc tcc agc acc tgg ccc agc cag acc gtc acc tgc aac gtt	672
117	Thr Val Pro Ser Ser Thr Trp Pro Ser Gln Thr Val Thr Cys Asn Val	
118	190 195 200 205	
119	gcc cac ccc gcc agc agc acc aag gtg gac aag aaa att gtg ccc agg	720
120	Ala His Pro Ala Ser Ser Thr Lys Val Asp Lys Lys Ile Val Pro Arg	
121	210 215 220	
122	gat tgt ggt tgt aag cct tgc ata tgt aca gtc cca gaa gta tca tct	768
123	Asp Cys Gly Cys Lys Pro Cys Ile Cys Thr Val Pro Glu Val Ser Ser	
124	225 230 235	
125	gtc ttc atc ttc ccc cca aag ccc aag gat gtg ctc acc att act ctg	816
126	Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Val Leu Thr Ile Thr Leu	
127	240 245 250	
128	act cct aag gtc acg tgt gtt gtg gta gac atc agc aag gat gat ccc	864
129	Thr Pro Lys Val Thr Cys Val Val Val Asp Ile Ser Lys Asp Asp Pro	
130	255 260 265	
131	gag gtc cag ttc agc tgg ttt gta gat gat gtg gag gtg cac aca gct	912
132	Glu Val Gln Phe Ser Trp Phe Val Asp Asp Val Glu Val His Thr Ala	
133	270 275 280 285	
134	cag acg caa ccc cgg gag gag cag ttc aac agc act ttc cgc tca gtc	960
135	Gln Thr Gln Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Ser Val	
136	290 295 300	
137	agt gaa ctt ccc atc atg cac cag aac tgg ctc aat ggc aag gag ttc	1008
138	Ser Glu Leu Pro Ile Met His Gln Asn Trp Leu Asn Gly Lys Glu Phe	
139	305 310 315	
140	aaa tgc agg gtc aac agt gca gct ttc cct gcc ccc atc gag aaa acc	1056
141	Lys Cys Arg Val Asn Ser Ala Ala Phe Pro Ala Pro Ile Glu Lys Thr	
142	320 325 330	
143	atc tcc aaa acc aaa ggc aga ccg aag gct cca cag gtg tac acc att	1104
144	Ile Ser Lys Thr Lys Gly Arg Pro Lys Ala Pro Gln Val Tyr Thr Ile	

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/499,662DATE: 03/02/2000
TIME: 11:52:58

Input Set: I499662.RAW

145	335	340	345	
146	cca cct ccc aag gag cag atg gcc aag gat aaa gtc agt ctg acc tgc			1152
147	Pro Pro Pro Lys Glu Gln Met Ala Lys Asp Lys Val Ser Leu Thr Cys			
148	350	355	360	365
149	atg ata aca gac ttc ttc cct gaa gac att act gtg gag tgg cag tgg			
150	Met Ile Thr Asp Phe Phe Pro Glu Asp Ile Thr Val Glu Trp Gln Trp			
151	370	375	380	
152	aat ggg cag cca gcg gag aac tac aag aac act cag ccc atc atg aac			1248
153	Asn Gly Gln Pro Ala Glu Asn Tyr Lys Asn Thr Gln Pro Ile Met Asn			
154	385	390	395	
155	acg aat ggc tct tac ttc gtc tac agc aag ctc aat gtg cag aag agc			1296
156	Thr Asn Gly Ser Tyr Phe Val Tyr Ser Lys Leu Asn Val Gln Lys Ser			
157	400	405	410	
158	aac tgg gag gca gga aat act ttc acc tgc tct gtg tta cat gag ggc			1344
159	Asn Trp Glu Ala Gly Asn Thr Phe Thr Cys Ser Val Leu His Glu Gly			
160	415	420	425	
161	ctg cac aac cac cat act gag aag agc ctc cac tct cct ggt aaa			1392
162	Leu His Asn His His Thr Glu Lys Ser Leu Ser His Ser Pro Gly Lys			
163	430	435	440	445
164	<210> SEQ ID NO 9			
165	<211> LENGTH: 464			
166	<212> TYPE: PRT			
167	<213> ORGANISM: Mus musculus			
168	<400> SEQUENCE: 9			
169	Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly			
170	-15	-10	-5	
171	Val His Ser Gln Val Gln Leu Gln Gln Pro Gly Ala Glu Leu Val Lys			
172	-1 1 5 10			
173	Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe			
174	15 20 25			
175	Thr Ser Tyr Trp Met Gln Trp Val Lys Gln Arg Pro Gly Gln Gly Leu			
176	30 35 40 45			
177	Glu Trp Ile Gly Glu Ile Asp Pro Ser Asp Ser Tyr Thr Asn Tyr Asn			
178	50 55 60			
179	Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Thr Ser Ser Ser			
180	65 70 75			
181	Thr Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val			
182	80 85 90			
183	Tyr Tyr Cys Ala Arg Asn Arg Asp Tyr Ser Asn Asn Trp Tyr Phe Asp			
184	95 100 105			
185	Val Trp Gly Thr Gly Thr Thr Val Thr Val Ser Ser Ala Lys Thr Thr			
186	110 115 120 125			
187	Pro Pro Ser Val Tyr Pro Leu Ala Pro Gly Ser Ala Ala Gln Thr Asn			
188	130 135 140			
189	Ser Met Val Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro			
190	145 150 155			
191	Val Thr Val Thr Trp Asn Ser Gly Ser Leu Ser Ser Gly Val His Thr			
192	160 165 170			
193	Phe Pro Ala Val Leu Gln Ser Asp Leu Tyr Thr Leu Ser Ser Ser Val			
194	175 180 185			

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/499,662

DATE: 03/02/2000
 TIME: 11:52:58

Input Set: I499662.RAW

```

195 Thr Val Pro Ser Ser Thr Trp Pro Ser Gln Thr Val Thr Cys Asn Val
196 190 195 200 205
197 Ala His Pro Ala Ser Ser Thr Lys Val Asp Lys Lys Ile Val Pro Arg
198 210 215 220
199 Asp Cys Gly Cys Lys Pro Cys Ile Cys Thr Val Pro Glu Val Ser Ser
200 225 230 235
201 Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Val Leu Thr Ile Thr Leu
202 240 245 250
203 Thr Pro Lys Val Thr Cys Val Val Val Asp Ile Ser Lys Asp Asp Pro
204 255 260 265
205 Glu Val Gln Phe Ser Trp Phe Val Asp Asp Val Glu Val His Thr Ala
206 270 275 280 285
207 Gln Thr Gln Pro Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Ser Val
208 290 295 300
209 Ser Glu Leu Pro Ile Met His Gln Asn Trp Leu Asn Gly Lys Glu Phe
210 305 310 315
211 Lys Cys Arg Val Asn Ser Ala Ala Phe Pro Ala Pro Ile Glu Lys Thr
212 320 325 330
213 Ile Ser Lys Thr Lys Gly Arg Pro Lys Ala Pro Gln Val Tyr Thr Ile
214 335 340 345
215 Pro Pro Pro Lys Glu Gln Met Ala Lys Asp Lys Val Ser Leu Thr Cys
216 350 355 360 365
217 Met Ile Thr Asp Phe Phe Pro Glu Asp Ile Thr Val Glu Trp Gln Trp
218 370 375 380
219 Asn Gly Gln Pro Ala Glu Asn Tyr Lys Asn Thr Gln Pro Ile Met Asn
220 385 390 395
221 Thr Asn Gly Ser Tyr Phe Val Tyr Ser Lys Leu Asn Val Gln Lys Ser
222 400 405 410
223 Asn Trp Glu Ala Gly Asn Thr Phe Thr Cys Ser Val Leu His Glu Gly
224 415 420 425
225 Leu His Asn His His Thr Glu Lys Ser Leu Ser His Ser Pro Gly Lys
226 430 435 440 445
227 <210> SEQ ID NO 10
228 <211> LENGTH: 714
229 <212> TYPE: DNA
230 <213> ORGANISM: Mus musculus
231 <220> FEATURE:
232 <221> NAME/KEY: CDS
233 <222> LOCATION: (1)..(714)
234 <220> FEATURE:
235 <221> NAME/KEY: mat peptide
236 <222> LOCATION: (61)..(714)
237 <220> FEATURE:
238 <221> NAME/KEY: sig peptide
239 <222> LOCATION: (1)..(60)
240 <400> SEQUENCE: 10
241 atg gag aca gac aca atc ctg cta tgg gtg atg atg ctc tgg att cca 48
242 Met Glu Thr Asp Thr Ile Leu Leu Trp Val Met Met Leu Trp Ile Pro
243 -20 -15 -10 -5
        ggc tcc act ggt gac att gtg ctg acc caa tct cca gct tct ttg gct

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.



96

PAGE: .6.

VERIFICATION SUMMARY
PATENT APPLICATION US/09/499,662

DATE: 03/02/2000

TIME: 11:52:58

Input Set: I499662.RAW

Line ? Error/Warning

Original Text

370 W "N" or "Xaa" used: Feature required
2122 W Invalid/Missing Amino Acid Numbering
2851 W Invalid/Missing Amino Acid Numbering
3083 W Invalid/Missing Amino Acid Numbering
3315 W Invalid/Missing Amino Acid Numbering

Gln Xaa Gln Leu Gln Gln Pro Gly Ala Glu L